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- 30. A vaccine composition according to claim 29 wherein the amount of aluminium phosphate exceeds the amount of aluminium hydroxide.
- 37. A vaccine composition according to claim 28 wherein the aluminium salts are present in the range 0.4 to 1.0 μg per vaccine dose.
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 22. A vaccine composition according to claim 26 in which the low antigen dose is less than 10 μg of haemagglutinin per dose or per combined dose of vaccine.
- A vaccine composition according to claim 32 in which the antigen dose is between 0.1 μg and 7.5 μg or between 1 and 5 μg of haemagglutinin per dose or per combined dose of vaccine.
- 34. A vaccine composition according to claim 26 wherein the influenza virus antigen is substantially free of host cell contamination.
- A vaccine composition according to claim 26 wherein the influenza virus component is purified by a method which includes a protease incubation step to digest non-influenza virus proteins.

27 36. A kit comprising:

- (i) a low dose of influenza virus antigen formulated with an adjuvant suitable for parenteral administration; and
- (ii) a low dose of influenza virus antigen for mucosal administration, in a mucosal delivery device such as an intranasal spray device.
- The kit according to claim 36 wherein the combined antigen dose of the parenteral and mucosal formulations is no more than 15 µg haemagglutinin.
- The kit according to claim wherein the combined antigen dose is less than 10 μg haemagglutinin.

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Up 29. The kit according to claim 27 wherein the influenza antigen in (i) is inactivated whole virus and the influenza antigen in (ii) is split virus.

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The kit according to claim 7 wherein the parenteral adjuvant is an aluminium salt or salts.

- A method for the production of an influenza vaccine for a pandemic situation which method comprises admixing egg-derived influenza virus antigen from a single influenza virus strain that is associated with a pandemic outbreak or has the potential to be associated with a pandemic outbreak, with a suitable adjuvant and providing vaccines lots or vaccine kits which contain less than 10 μg influenza haemagglutinin antigen per dose or no more than 15 μg haemagglutinin per combined dose.
- 43 42. A method according to claim 41 wherein the antigen is highly purified.
- A method according to claim 41 wherein the influenza virus antigen is in the form of whole influenza virus particles.
- The vaccine composition of claim 26 wherein the antigen is selected from an H2 antigen such as H2N2 and an H5 antigen such as H5N1.
- The kit of claim wherein the antigen is selected from an H2 antigen such as H2N2 and an H5 antigen such as H5N1.
- The method of claim of wherein the antigen is selected from an H2 antigen such as H2N2 and an H5 antigen such as H5N1.
- A process for producing influenza virus antigen for use in a vaccine, which process comprises the step of incubating a mixture containing influenza virus particles with a protease to digest non-influenza virus proteins.
 - A method according to claim 4 wherein the protease digestion step is performed after the influenza virus antigen has been partially purified by one or more physical separation steps.
- A method according to claim M wherein the protease digestion step is performed prior to a virus inactivation step.
- 56. A method according to claim 49 wherein the purification process comprises the steps of: